

Docket No.: S&ZFH020501

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : JÜRGEN HERRE ET AL.

Filed : CONCURRENTLY HEREWITH

Title : APPARATUS FOR ANALYZING AN AUDIO SIGNAL WITH
REGARD TO RHYTHM INFORMATION OF THE AUDIO SIGNAL
BY USING AN AUTOCORRELATION FUNCTION

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with 37 C.F.R. 1.98 copies of the following patents and/or publications are submitted herewith:

U.S. Patent No. 5,918,223 (Blum et al.), dated June 29, 1999;

U.S. Patent No. 4,964,167 (Kunizawa et al.), dated October 16, 1990 and
corresponding German Published Non-Prosecuted Patent Application DE 38 23 724
A1 (Kunizawa et al.), dated February 2, 1989;

PCT WO 93/24923 (Todd), dated December 9, 1993;

Patent Abstract of Japan 09293083 A (Kazuyo), dated November 11, 1997;

Tolonen, T. et al.: "A Computationally Efficient Multipitch Analysis Model", IEEE
Transactions on Speech and Audio Processing, Vol. 8, No. 6, November 2000, pp.
708-716;

Goto, M. et al.: "Real-Time Beat Tracking for Drumless Audio Signals: Chord Change Detection for Musical Decisions", *Speech Communication*, Elsevier Science B.V., Vol. 27, 1999, pp. 311-335;

Scheirer, E. D.: "Tempo and Beat Analysis of Acoustic Musical Signals", *Acoustical Society of America*, Vol. 103, No. 1, January 1998, pp. 588-601;

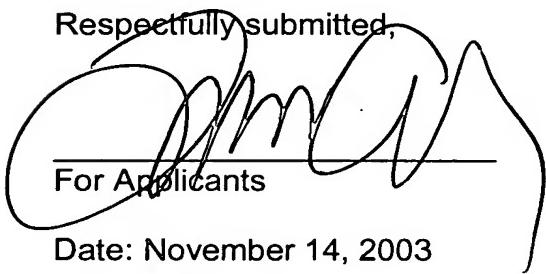
Brown, J. C.: "Determination of the Meter of Musical Scores by Autocorrelation", *The Journal of the Acoustical Society of America*, Acoustical Society of America, Vol. 94, No. 4, October 1993, pp. 1953-1957;

Scheirer, E. D.: "Pulse Tracking With a Pitch Tracker", IEEE ASSP Workshop on New Paltz, October 19, 1997, four pages;

International Search Report, dated November 26, 2002.

If no translation of pertinent portions of any foreign language patents or publications mentioned above is included with the aforementioned copies of those applications, patents and/or publications, it is because no existing translation is readily available to the applicant. As per the Notice in 1273 OG 55 (August 5, 2003) no copies of any above-mentioned U.S. patents and U.S. patent application publications are submitted for any application filed after June 30, 2003.

Respectfully submitted,


For Applicants

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Date: November 14, 2003

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/kf

FORM PTO-1449 (SUBSTITUTE)				Attorney Docket No.: S&ZFH020501 Appl. No.: _____			
U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE				Applicant: JÜRGEN HERRE ET AL.			
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (37 CFR 1.98(b))				Filing Date: November 14, 2003 Group Art Unit:			

EXAMINER INITIALS		PATENT NO.	DATE	PATENTEE	CLASS	SUB CLASS	FILING DATE
	A	5,918,223	6/29/99	Blum et al.			
	B	4,964,167	10/16/90	Kunizawa et al.			
	C						
	D						
	E						
	F						
	G						
	H						
	I						

FOREIGN PATENT DOCUMENT

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUB CLASS	TRANSL. YES NO
	J	38 23 724 A1	2/2/89	Germany			
	K	93/24923	12/9/93	WIPO			
	L	09293083 A	11/11/97	Japan			
	M						
	N						

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

	Tolonen, T. et al.: "A Computationally Efficient Multipitch Analysis Model", IEEE Transactions on Speech and Audio Processing, Vol. 8, No. 6, November 2000, pp. 708-716;
	Goto, M. et al.: "Real-Time Beat Tracking for Drumless Audio Signals: Chord Change Detection for Musical Decisions", Speech Communication, Elsevier Science B.V., Vol. 27, 1999, pp. 311-335

EXAMINER	DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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		Scheirer, E. D.: "Pulse Tracking With a Pitch Tracker", IEEE ASSP Workshop on New Paltz, October 19, 1997, four pages

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